

Date: Fri, 4 Feb 94 08:42:55 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #111
To: Info-Hams

Info-Hams Digest Fri, 4 Feb 94 Volume 94 : Issue 111

Today's Topics:

A code speed question
Antenna Price vs Performance
ARRL DX Bulletin #8 - 3 February 1994
Automotive computers and amateur radios - Help!
Dayton Parking: Hell on Earth!
ORBS\$035.MICRO.AMSAT
ORBS\$035.MISC.AMSAT
ORBS\$035.OSCAR.AMSAT
ORBS\$035.WEATH.AMSAT
Radio microphone monitor?
Schematic Needed

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 3 Feb 1994 00:25:34 GMT
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!usenet.ins.cwru.edu!
cleveland.Freenet.Edu!aa813@network.ucsd.edu
Subject: A code speed question
To: info-hams@ucsd.edu

In a previous article, elendir@enst.fr (Elendir) says:

> Hi there,
>
> I am learning the morse code, and occasionally I try accelerated rates
>(15 wpm, e.g). And while I can get many letters, I find it impossible to

>write them down. So this is my question :
> How can you achieve at the same time listening and writing of the letters
>at such speeds ? That seems a mystery to me.
>

I found that disconnected script worked well. I could not print that fast and regular script presupposes that you know what the next letter will be (which I never do). Happiness is thinking, "This makes no sense, but looking at the paper and finding WORDS!"

I still cannot copy in my head.

73, Joe N8IPC

Date: 3 Feb 1994 00:15:46 GMT
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!noc.near.net!
news.delphi.com!pschou@network.ucsd.edu
Subject: Antenna Price vs Performance
To: info-hams@ucsd.edu

FWIW here are my thoughts on the price/performance ratio of Ham HF antennae. The BEST and most expensive for point to point communication is a BIG multi-element rotatable directional antenna mounted at least one and one half wavelengths high over a saltwater marsh. <BG> Since this type of installation is not doable and/or desirable for most of us we need alternatives.

In my years of Ham activity starting in the late 1940's I have owned or used many types of antennae including some that came close to the theoretical BEST. I travelled extensively and used borrowed/scrounged stuff when I had to. The usual antenna would be a trapped 1/4 wave vertical dipole of some sort with whatever ground plane I had room for. I never noticed a bit of difference in performance between any of the major brands providing that they were of about the same physical length. I had the impression that a roof mounted vertical with four quarter wave radials worked better than a ground mounted vertical with the same radials. It should but I never ran any real tests. I also used wire dipoles and long wires at various times. In all cases I had a usable Ham station. I could communicate with other Hams all over the world as long as the propagation would cooperate.

My present antenna is a 105' G5RV strung haphazardly through the trees in my backyard. It works as well if not better than anything I have used. Because it is mounted more or less horizontal it does exhibit some lobing on the higher bands. I have tried a shorter G5RV (52') mounted vertically and was impressed with its performance even though the top was only 40' or so above the ground. We just folded the excess 90 degrees a few feet

above the ground. If it ever gets warm again I suspect that a vertical G5RV type dipole will become my prime radiator.

I have found that the old adage "The more Copper the better." is true.
I have found that a long piece of wire hung from a tall tree is usually better than a trapped vertical, be it called quarter or half wave.
I have found that the tallest commercial Ham vertical works better than the shortest. (See "more Copper")
I have found that to work DX the fewer skips the better. This means height to lower the radiation angle.
I have found that even a 10' random wire will work under good band conditions.
I have found that a 20 meter beam at 30' is not much better than anything else at the same height. (Yes it's a little quieter.)

All in all I'd recommend a wire antenna as high as possible. Mount it vertically for an omni directional pattern or horizontally to favor a particular direction. Put your money in a tuner with a VSWR bridge.

If you can't hang a wire someplace a roof mounted 1/4 wave vertical with a minimum of four radials is probably the least expensive option.

The point of all this is that there are a myriad of antenna options and that for the most part the difference in on the air performance is marginal. The point is to get on the air. 73

Date: Fri, 4 Feb 1994 06:09:43 MST
From: agate!howland.reston.ans.net!sol.ctr.columbia.edu!news.kei.com!
yeshua.marcam.com!zip.eecs.umich.edu!destroyer!nntp.cs.ubc.ca!alberta!ve6mgs!
usenet@network.ucsd.edu
Subject: ARRL DX Bulletin #8 - 3 February 1994
To: info-hams@ucsd.edu

ZCZC AE06
QST de W1AW
DX Bulletin 8 ARLD008
>From ARRL Headquarters
Newington CT February 3, 1994
To all radio amateurs

SB DX ARL ARLD008
ARLD008 DX news

The items in this week's bulletin are courtesy of Bob, W5KNE; QRZ DX; and the Ohio/Penn and Yankee Clipper Contest Club PacketCluster networks. Thanks.

PETER FIRST ISLAND. 3Y0PI has been active for several days. The last 100 PacketCluster spots show stations in the northeast US working them on all bands 40 through 10 meters.

On CW try 1826, 3522, 7022, 10104, 14024, 18074, 21024, 24894 and 28024 kHz. Listen for their SSB on 1845, 3785, 7065, 14195, 18145, 21295, 24945 and 28475 kHz. For RTT and 28180 kHz; and satellite action on 145.890 MHz listening down on OSCAR 10 and 13.

On HF the split windows are 5 to 10 kHz wide maximum on CW and 25 kHz on SSB. Stateside stations are being worked by call areas following propagation patterns, typically 1, 2, 3, 4, 8, 9, 0, 5, 7 and 6.

At around 1800z February 3, the DXpedition crew had some problems with their generators. The icebreaker that is to pick them up is running six days behind schedule, so the new pick up date is February 19.

MOUNT ATHOS. Monk Apollo, SV2ASP/A, has been heard on some of the WARC bands with a very strong signal, most notably on 17 meters. Also check between 3790 and 3795 kHz at 0530 and 1700z. He recently showed up on the 21335 DX Net around 1345z.

KERGUELEN ISLAND. New amateur Pierre, FT5XJ, will be on the island until July for a three month leave. When he returns his stay will be for a year. He has been on 14250 kHz at 0500z, 14191 kHz at 1420z and can sometimes be found on 14198 kHz. QSL via F5NLL.

TONGA. Jim, VK9NS, is on as A35MR. He was worked on 21260 kHz between 2100 and 2200z. A35KB has also been active. Nob, JF2MBF, ex VR6JJ, along with Yasu, JI1NJC, will start a four week Pacific DXpedition from Tonga as A35JJ from February 12 to 20. This will be all band CW, SSB, RTT
JR2KDN.

TURKS AND CAICOS ISLANDS. Ed, K9IMM, and Carol, NS9L, will be on Provos from February 17 to 24. K9IMM will operate the ARRL CW DX Contest on 160 meters as VP5B. Before and after the contest Ed and Carol will operate as VP5/ their own calls on 160 through 10 meters, some of which may be with QRP. QSL via WB9NOV w/SASE.

THIS WEEKEND ON THE RADIO. The North American Sprint CW, sponsored by the National Contest Journal, NCJ, runs for four hours starting at 0000z February 6, or Saturday night local time. Check around 3540, 7040 and 14040 kHz. Complete rules appear on page 127 of January QST

The 1994 Classic Radio Exchange is from 2000z February 6 to 0400z on the 7th. Amateurs are encouraged to operate restored equipment at least 10 years old. Exchange name, RST transmitter type. CW action will be 60 kHz up from the bottom of the band. For SSB try 3880, 7290, 14280, 21380 and 28320 kHz. Novice/Tech stations on HF will be 20 kHz up from lower subband edge.

The Vermont QSO Party, sponsored by the Central Vermont ARC, is a must for those needing Vermont for their WAS awards. It starts at 0000z February 5 and ends at 0500z on the 6th. Activity will be on 160, 80, 40, 20, 15 and 10 meters.

For further information on these three operating events, check page NNNN

--

James J. Reisert Internet: reisert@wrksys.enet.dec.com
Digital Equipment Corp. UUCP: ...decwrl!wrksys.enet.dec.com!reisert
146 Main Street - ML03-6/C9 Voice: 508-493-5747
Maynard, MA 01754 FAX: 508-493-0395

Date: 31 Jan 1994 23:00:55 GMT
From: pacbell.com!sgiblab!sdd.hp.com!elroy.jpl.nasa.gov!news.aero.org!Aero.org!
obrien@network.ucsd.edu
Subject: Automotive computers and amateur radios - Help!
To: info-hams@ucsd.edu

I need a pointer to a list of automotive models that have real problems when amateur radios are installed. Primary culprits, of course, would be unshielded/undershielded engine computers. I know that SOME Toyotas have such problems, which are admitted and shined on by the corporation.

What models have problems? Is there a list somewhere?

--

Mike O'Brien
obrien@aero.org

Date: Fri, 4 Feb 1994 12:27:14 GMT
From: hearst.acc.Virginia.EDU!concert!corpgate!nrtpa22!brtph560!tcain@uunet.uu.net
Subject: Dayton Parking: Hell on Earth!
To: info-hams@ucsd.edu

In article <1994Feb3.013627.13063@news.csuohio.edu> sww@csuohio.edu (Steve Wolf) writes:

> There was a comment that "all you people better stay home". A bunch
> of offshore folks are. They have no intention of either driving in Ohio
> (hi hi) or placing their welfare in the hands of another ham they do not
> know well.
> 73,
> Steve
> N08M.#NEOH.OH.USA.NA
>

I'm sure Dayton's cabbies will enjoy the business. Every year when I'm driving in I listen to the talk-in and the standard complaint from the folks at the hotels is 'wheres the bus?' I can understand dropping the service.

ps to N08M - Steve, this voice from your past made the 'better stay home' comment. Can you remember back to high school time?

--

Tom Cain WB80UE@ko23

tcain@bnr.ca

Date: 4 Feb 94 13:31:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$035.MICRO.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-035.D
Orbital Elements 035.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH,TX February 4, 1994
BID: \$ORBS-035.D
TO ALL RADIO AMATEURS BT

Satellite: UO-14
Catalog number: 20437
Epoch time: 94032.74755041
Element set: 960
Inclination: 98.5970 deg
RA of node: 119.3308 deg
Eccentricity: 0.0010282
Arg of perigee: 228.1065 deg
Mean anomaly: 131.9239 deg
Mean motion: 14.29820416 rev/day
Decay rate: 6.9e-07 rev/day^2

Epoch rev: 21023
Checksum: 286

Satellite: A0-16
Catalog number: 20439
Epoch time: 94032.73834399
Element set: 761
Inclination: 98.6037 deg
RA of node: 120.4137 deg
Eccentricity: 0.0010538
Arg of perigee: 229.1624 deg
Mean anomaly: 130.8644 deg
Mean motion: 14.29876054 rev/day
Decay rate: $5.6e-07$ rev/day²
Epoch rev: 21024
Checksum: 300

Satellite: D0-17
Catalog number: 20440
Epoch time: 94032.21605654
Element set: 760
Inclination: 98.6061 deg
RA of node: 120.1794 deg
Eccentricity: 0.0010670
Arg of perigee: 230.1283 deg
Mean anomaly: 129.8974 deg
Mean motion: 14.30014080 rev/day
Decay rate: $5.9e-07$ rev/day²
Epoch rev: 21018
Checksum: 263

Satellite: W0-18
Catalog number: 20441
Epoch time: 94032.74877680
Element set: 761
Inclination: 98.6045 deg
RA of node: 120.7143 deg
Eccentricity: 0.0011238
Arg of perigee: 228.7469 deg
Mean anomaly: 131.2742 deg
Mean motion: 14.29990577 rev/day
Decay rate: $5.9e-07$ rev/day²
Epoch rev: 21026
Checksum: 311

Satellite: L0-19
Catalog number: 20442
Epoch time: 94032.73595222

Element set: 760
Inclination: 98.6061 deg
RA of node: 120.9273 deg
Eccentricity: 0.0011579
Arg of perigee: 227.6391 deg
Mean anomaly: 132.3802 deg
Mean motion: 14.30084334 rev/day
Decay rate: 6.0e-07 rev/day^2
Epoch rev: 21027
Checksum: 273

Satellite: UO-22

Catalog number: 21575
Epoch time: 94032.20992261
Element set: 461
Inclination: 98.4468 deg
RA of node: 109.3768 deg
Eccentricity: 0.0007973
Arg of perigee: 342.8458 deg
Mean anomaly: 17.2467 deg
Mean motion: 14.36886367 rev/day
Decay rate: 9.2e-07 rev/day^2
Epoch rev: 13355
Checksum: 335

Satellite: KO-23

Catalog number: 22077
Epoch time: 94032.56421641
Element set: 356
Inclination: 66.0829 deg
RA of node: 203.9397 deg
Eccentricity: 0.0009202
Arg of perigee: 321.5390 deg
Mean anomaly: 38.4975 deg
Mean motion: 12.86284168 rev/day
Decay rate: -3.7e-07 rev/day^2
Epoch rev: 6934
Checksum: 310

Satellite: AO-27

Catalog number: 22825
Epoch time: 94028.69364623
Element set: 257
Inclination: 98.6656 deg
RA of node: 105.8249 deg
Eccentricity: 0.0007962
Arg of perigee: 258.9140 deg
Mean anomaly: 101.1150 deg

Mean motion: 14.27603315 rev/day
Decay rate: 1.3e-07 rev/day^2
Epoch rev: 1778
Checksum: 305

Satellite: IO-26
Catalog number: 22826
Epoch time: 94028.75480372
Element set: 258
Inclination: 98.6650 deg
RA of node: 105.9020 deg
Eccentricity: 0.0008479
Arg of perigee: 259.3938 deg
Mean anomaly: 100.6287 deg
Mean motion: 14.27705864 rev/day
Decay rate: 2.0e-07 rev/day^2
Epoch rev: 1779
Checksum: 325

Satellite: KO-25
Catalog number: 22830
Epoch time: 94027.67578287
Element set: 259
Inclination: 98.5680 deg
RA of node: 103.5736 deg
Eccentricity: 0.0010863
Arg of perigee: 227.3626 deg
Mean anomaly: 132.6641 deg
Mean motion: 14.28029120 rev/day
Decay rate: 2.7e-07 rev/day^2
Epoch rev: 1764
Checksum: 307

/EX

Date: 4 Feb 94 13:36:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$035.MISC.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-035.M
Orbital Elements 035.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM WA5QGD FORT WORTH, TX February 4, 1994
BID: \$ORBS-035.M

TO ALL RADIO AMATEURS BT

Satellite: MIR

Catalog number: 16609
Epoch time: 94031.87716614
Element set: 120
Inclination: 51.6174 deg
RA of node: 150.3786 deg
Eccentricity: 0.0004081
Arg of perigee: 270.2389 deg
Mean anomaly: 89.8133 deg
Mean motion: 15.59884699 rev/day
Decay rate: 1.2295e-04 rev/day^2
Epoch rev: 45478
Checksum: 330

Satellite: HUBBLE

Catalog number: 20580
Epoch time: 94030.88685201
Element set: 432
Inclination: 28.4686 deg
RA of node: 37.8356 deg
Eccentricity: 0.0006388
Arg of perigee: 94.2779 deg
Mean anomaly: 265.8536 deg
Mean motion: 14.90449228 rev/day
Decay rate: 1.105e-05 rev/day^2
Epoch rev: 888
Checksum: 324

Satellite: GRO

Catalog number: 21225
Epoch time: 94031.58821780
Element set: 60
Inclination: 28.4626 deg
RA of node: 99.8409 deg
Eccentricity: 0.0003960
Arg of perigee: 118.3199 deg
Mean anomaly: 241.7802 deg
Mean motion: 15.39951744 rev/day
Decay rate: 5.286e-05 rev/day^2
Epoch rev: 3585
Checksum: 313

Satellite: UARS

Catalog number: 21701
Epoch time: 94030.49811085
Element set: 468

Inclination: 56.9857 deg
RA of node: 350.7923 deg
Eccentricity: 0.0004837
Arg of perigee: 107.9039 deg
Mean anomaly: 252.2522 deg
Mean motion: 14.96284426 rev/day
Decay rate: -1.766e-05 rev/day^2
Epoch rev: 13032
Checksum: 305

Satellite: POSAT
Catalog number: 22829
Epoch time: 94032.79331938
Element set: 251
Inclination: 98.6598 deg
RA of node: 109.9146 deg
Eccentricity: 0.0009385
Arg of perigee: 231.2681 deg
Mean anomaly: 128.7662 deg
Mean motion: 14.28000972 rev/day
Decay rate: 7.0e-07 rev/day^2
Epoch rev: 1837
Checksum: 316

/EX

Date: 4 Feb 94 13:27:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$035.OSCAR.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-035.0
Orbital Elements 035.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH,TX February 4, 1994
BID: \$ORBS-035.0
TO ALL RADIO AMATEURS BT

Satellite: A0-10
Catalog number: 14129
Epoch time: 94026.96316316
Element set: 256
Inclination: 27.2068 deg
RA of node: 344.5815 deg
Eccentricity: 0.6022530

Arg of perigee: 149.7185 deg
Mean anomaly: 266.2880 deg
Mean motion: 2.05879387 rev/day
Decay rate: -2.26e-06 rev/day²
Epoch rev: 7987
Checksum: 328

Satellite: UO-11

Catalog number: 14781
Epoch time: 94032.08509882
Element set: 661
Inclination: 97.7914 deg
RA of node: 53.1385 deg
Eccentricity: 0.0012207
Arg of perigee: 350.8426 deg
Mean anomaly: 9.2555 deg
Mean motion: 14.69134627 rev/day
Decay rate: 4.02e-06 rev/day²
Epoch rev: 53032
Checksum: 294

Satellite: RS-10/11

Catalog number: 18129
Epoch time: 94032.53118575
Element set: 858
Inclination: 82.9221 deg
RA of node: 69.1201 deg
Eccentricity: 0.0013160
Arg of perigee: 45.5265 deg
Mean anomaly: 314.6964 deg
Mean motion: 13.72330706 rev/day
Decay rate: 5.0e-07 rev/day²
Epoch rev: 33130
Checksum: 270

Satellite: A0-13

Catalog number: 19216
Epoch time: 94030.92643199
Element set: 870
Inclination: 57.8741 deg
RA of node: 270.6815 deg
Eccentricity: 0.7209428
Arg of perigee: 333.8315 deg
Mean anomaly: 3.2375 deg
Mean motion: 2.09718964 rev/day
Decay rate: 2.80e-06 rev/day²
Epoch rev: 4313
Checksum: 313

Satellite: F0-20
Catalog number: 20480
Epoch time: 94031.53669543
Element set: 655
Inclination: 99.0172 deg
RA of node: 209.2767 deg
Eccentricity: 0.0540316
Arg of perigee: 289.1742 deg
Mean anomaly: 65.1641 deg
Mean motion: 12.83223743 rev/day
Decay rate: -2.7e-07 rev/day^2
Epoch rev: 18660
Checksum: 303

Satellite: A0-21
Catalog number: 21087
Epoch time: 94031.03739220
Element set: 420
Inclination: 82.9409 deg
RA of node: 244.1976 deg
Eccentricity: 0.0036680
Arg of perigee: 104.7675 deg
Mean anomaly: 255.7549 deg
Mean motion: 13.74532587 rev/day
Decay rate: 9.4e-07 rev/day^2
Epoch rev: 15074
Checksum: 311

Satellite: RS-12/13
Catalog number: 21089
Epoch time: 94031.70193410
Element set: 659
Inclination: 82.9219 deg
RA of node: 112.6758 deg
Eccentricity: 0.0030259
Arg of perigee: 126.1313 deg
Mean anomaly: 234.2652 deg
Mean motion: 13.74034091 rev/day
Decay rate: 4.2e-07 rev/day^2
Epoch rev: 14990
Checksum: 282

/EX

Date: 4 Feb 94 13:34:00 GMT

From: news-mail-gateway@ucsd.edu
Subject: ORBS\$035.WEATH.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-035.W
Orbital Elements 035.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH, TX February 4, 1994
BID: \$ORBS-035.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 94030.85754099
Element set: 698
Inclination: 99.0709 deg
RA of node: 79.6136 deg
Eccentricity: 0.0014249
Arg of perigee: 247.4940 deg
Mean anomaly: 112.4724 deg
Mean motion: 14.13584243 rev/day
Decay rate: 1.06e-06 rev/day^2
Epoch rev: 47094
Checksum: 327

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 94030.87446357
Element set: 597
Inclination: 98.5113 deg
RA of node: 44.0548 deg
Eccentricity: 0.0013983
Arg of perigee: 14.1154 deg
Mean anomaly: 346.0414 deg
Mean motion: 14.24860838 rev/day
Decay rate: 8.0e-07 rev/day^2
Epoch rev: 38305
Checksum: 309

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 94031.88812903
Element set: 258
Inclination: 82.5389 deg
RA of node: 17.0036 deg
Eccentricity: 0.0015453
Arg of perigee: 200.0821 deg

Mean anomaly: 159.9741 deg
Mean motion: 13.84705936 rev/day
Decay rate: 5.7e-07 rev/day^2
Epoch rev: 30349
Checksum: 307

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 94027.46247972
Element set: 259
Inclination: 82.5373 deg
RA of node: 63.2695 deg
Eccentricity: 0.0015606
Arg of perigee: 255.3337 deg
Mean anomaly: 104.6056 deg
Mean motion: 13.16963718 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 26473
Checksum: 317

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 94030.90850576
Element set: 501
Inclination: 99.1598 deg
RA of node: 16.5427 deg
Eccentricity: 0.0011803
Arg of perigee: 155.4181 deg
Mean anomaly: 204.7555 deg
Mean motion: 14.12954794 rev/day
Decay rate: 1.29e-06 rev/day^2
Epoch rev: 27583
Checksum: 308

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 94032.05387033
Element set: 259
Inclination: 82.5189 deg
RA of node: 252.4483 deg
Eccentricity: 0.0012906
Arg of perigee: 250.2891 deg
Mean anomaly: 109.6871 deg
Mean motion: 13.84356477 rev/day
Decay rate: 5.5e-07 rev/day^2
Epoch rev: 24885
Checksum: 332

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 94031.24041489
Element set: 979
Inclination: 82.5524 deg
RA of node: 4.6588 deg
Eccentricity: 0.0005865
Arg of perigee: 275.4667 deg
Mean anomaly: 84.5785 deg
Mean motion: 13.04422822 rev/day
Decay rate: 4.4e-07 rev/day^2
Epoch rev: 20504
Checksum: 303

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 94027.78170716
Element set: 759
Inclination: 82.5487 deg
RA of node: 319.9935 deg
Eccentricity: 0.0015537
Arg of perigee: 175.8931 deg
Mean anomaly: 184.2364 deg
Mean motion: 13.84187490 rev/day
Decay rate: 2.4e-07 rev/day^2
Epoch rev: 18119
Checksum: 345

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 94031.24189156
Element set: 881
Inclination: 98.8450 deg
RA of node: 55.7276 deg
Eccentricity: 0.0015225
Arg of perigee: 34.8287 deg
Mean anomaly: 325.3871 deg
Mean motion: 14.01328583 rev/day
Decay rate: -2.18e-06 rev/day^2
Epoch rev: 17452
Checksum: 316

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 94032.06418741
Element set: 759
Inclination: 82.5234 deg
RA of node: 254.2791 deg

Eccentricity: 0.0014796
Arg of perigee: 68.6622 deg
Mean anomaly: 291.6123 deg
Mean motion: 13.83571908 rev/day
Decay rate: 6.7e-07 rev/day^2
Epoch rev: 16893
Checksum: 323

Satellite: MET-3/4
Catalog number: 21232
Epoch time: 94032.12779086
Element set: 667
Inclination: 82.5420 deg
RA of node: 265.7828 deg
Eccentricity: 0.0013008
Arg of perigee: 161.7732 deg
Mean anomaly: 198.3861 deg
Mean motion: 13.16459852 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 13345
Checksum: 305

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 94030.88246322
Element set: 907
Inclination: 98.6341 deg
RA of node: 61.5947 deg
Eccentricity: 0.0012159
Arg of perigee: 276.6165 deg
Mean anomaly: 83.3630 deg
Mean motion: 14.22362615 rev/day
Decay rate: 1.53e-06 rev/day^2
Epoch rev: 14101
Checksum: 279

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 94031.52098998
Element set: 663
Inclination: 82.5520 deg
RA of node: 213.2454 deg
Eccentricity: 0.0012989
Arg of perigee: 174.8683 deg
Mean anomaly: 185.2566 deg
Mean motion: 13.16827699 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 11847

Checksum: 341

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 94032.21037544
Element set: 259
Inclination: 82.5501 deg
RA of node: 314.1919 deg
Eccentricity: 0.0020900
Arg of perigee: 247.4078 deg
Mean anomaly: 112.4878 deg
Mean motion: 13.82998426 rev/day
Decay rate: 5.9e-07 rev/day^2
Epoch rev: 2129
Checksum: 300

/EX

Date: 4 Feb 94 14:50:07 GMT
From: news-mail-gateway@ucsd.edu
Subject: Radio microphone monitor?
To: info-hams@ucsd.edu

We have need to monitor some radio-microphone frequencies to determine if they are in use. Telex radio microphones use discrete frequencies in the range 165 mHz thru 216 mHz. Low-cost scanners only search to 174 mHz. Any suggestions for a LOW cost scanner, or modification, that will permit reception above 174? I'm not particularly interested in the \$400+ all-band scanner -- only the low-cost units, because we only will need them a few weeks.

Paul Marsh N0ZAU pmarsh@metro.mccneb.edu

Date: Fri, 4 Feb 1994 13:45:46 GMT
From: hearst.acc.Virginia.EDU!concert!corpgate!nrtpa22!b4pph106!
tjvest@uunet.uu.net
Subject: Schematic Needed
To: info-hams@ucsd.edu

Schematic needed for Motorola HandiCom 10T VHF portable units.
Please post here, or call 919-481-5549. Sorry no email yet.
Thanks de Tim KD4UYI.

--

tjvest@bnr.ca opinions expressed here are not those of my employer

Date: 31 Jan 1994 22:23:19 GMT
From: orca.es.com!olin!alan@uunet.uu.net
To: info-hams@ucsd.edu

References <mosier.63.0@fagan.uncg.edu>, <2hmper\$ppo@solaris.cc.vt.edu>,
<CKBJtu.45s@freenet.carleton.ca>ne
Subject : Re: Famous hams

In article <CKBJtu.45s@freenet.carleton.ca> ab510@FreeNet.Carleton.CA (George Attallah) writes:

>
> ...Famous Hams...
>
>H0H0 Santa Claus
>W7KID Billy The Kid
>

How could you forget:

SL1CE Lorena Bobbitt

--

Alan Brubaker, K6X0 |~|_ "Pumps have handles, Hams have names;
<IYF disclaimer> | * |mine's Lee, what's yours?" - Lee Wical,
Internet: alan@dsd.es.com|____|KH6BZF, the Bloomin' Zipper Flipper.

Date: Wed, 02 Feb 1994 10:40:24 -0700
From: ftpbox!mothost!schbbs!waters.corp.mot.com.corp.mot.com!user@uunet.uu.net
To: info-hams@ucsd.edu

References <CKAM3v.I2M@zeno.fit.edu>, <2i8qu9\$26m@cville-srv.wam.umd.edu>,
<1994Feb2.125630.7024@newshost.pictel.com>corp.m
Subject : Re: FCC: Whats taking so long????

In article <1994Feb2.125630.7024@newshost.pictel.com>,
wpns@newshost.pictel.com (Willie Smith) wrote:

> The Pyrotechnic <haga@zach.fit.edu> wrote:

> >My god, ive been paitently waiting for my call sign to come in... it's been
> >well over 9 weeks now, and it still hasn't arrived.
> [Yes, the FCC is getting behind lately, but I
> waited 12 weeks for my ticket, and 8-10 of those it sat on a desk at
> the ARRL...]. Besides, by the time you get a response from your VEC,
> you'll have the ticket! :+)

They are slow for all of the licenses BTW, I applied for a Ship Station
license in December and still haven't received it. The FCC allows a
temporary call in that service though, so its not a problem.

End of Info-Hams Digest V94 #111

